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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,939	07/31/2003	Mitsuaki Osame	12732-161001	1228
26171	7590 07/14/2005		EXAMINER	
FISH & RICHARDSON P.C.			VU, DAVID HUNG	
P.O. BOX 102	-			
MINNEAPOL	IS, MN 55440-1022		ART UNIT	PAPER NUMBER
			2828	
			DATE MAILED: 07/14/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
055	10/630,939	OSAME ET AL.	(and)			
Office Action Summary	Examiner	Art Unit				
	David Vu	2828				
The MAILING DATE of this communic Period for Reply	ation appears on the cover sheet	with the correspondence add	Iress			
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30). If NO period for reply is specified above, the maximum statused in the period for reply within the set or extended period for reply within the set or extende	ATION. 37 CFR 1.136(a). In no event, however, may nication. days, a reply within the statutory minimum of tory period will apply and will expire SIX (6) Nill, by statute, cause the application to become	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this core BABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed	on .					
	b)⊠ This action is non-final.					
3) Since this application is in condition for	, 					
Disposition of Claims	•					
4) ⊠ Claim(s) 7-12 and 19-35 is/are pending 4a) Of the above claim(s) is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 7-12 and 19-35 is/are rejected to. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	withdrawn from consideration.					
Application Papers						
9) The specification is objected to by the	Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objecti	on to the drawing(s) be held in abe	yance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to be						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority do copies of the priority do copies of the priority do copies of the certified copies of application from the International * See the attached detailed Office action	ocuments have been received. ocuments have been received ir the priority documents have be al Bureau (PCT Rule 17.2(a)).	n Application No en received in this National S	Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO Discosure Statement(s) (PTO-1449 or Preper No(s)/Mail Date	O-948) Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-	-152)			

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DETAILED ACTION

Allowance of the claims has been withdrawn in light of newly applied prior arts.

Drawings

1. Figures 5A-5B should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 10-12, 27-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 10-11, the recitation "...a power source for <u>fixing</u> an electric potential output to the source line..." renders the claim unclear as to what applicant's trying to claim since the function of the power source is only <u>for supplying</u> power to the source

line, not for fixing an electrical potential output. Similar claim language is also recited for the first and second power sources.

Note that such "fixing" scheme by the power source is also not explained anywhere in the specification. Applicant should details how the power source can "fix" an electric potential output so as to more clearly define the claimed subject matter.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 7-12 and 21-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Koyama, U.S. Pat No 6,760,004.

Regarding claims 7-8, 10-11 Koyama discloses the claimed invention including a source line driving circuit 100; a first pixel comprising a first source line S1 and a first power source line V1; and a second pixel comprising a second source line S2 and a second power source line V2, wherein a last stage 104 of the source line driving circuit is electrically connected to the first source line and the second source line, wherein inherently a first power source is electrically connected to both the last stage and the first power source line, and wherein inherently a second power source electrically

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connected to both the last stage and the second power source line, see, for example, figures 1-2, 4, column 2, lines 62+, column 3, lines 1-16, column 4, lines 10-19, column 6, lines 19-22, column 8, lines 25-27. Note that in a circuit all components are electrically connected together.

Regarding claims 9,12, inherently the power sources supply different or the same power so as to adjust brightness of each pixel.

Regarding claims 21-28, columns 27-28 discloses limitations, e.g., matrix light emitting device, video camera, digital camera etc, as claimed.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koyama in view of Yamazaki et al (herein after Yamazaki), U.S. Pub. No 2002/0018060.

Koyama as discussed from the above, essentially disclose the claimed invention but fail to explicitly disclose the last stage includes at least a level shifter. Yamazaki discloses a light emitting device with a level shifter circuit in the last stage, i.e., the stage after amplification (figure 3). It would have been obvious to one having ordinary skill in the art at the time of applicant's claimed invention was made to have provided the

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Koyama reference with the level shifter so as to regulate the output to the source signal lines; thus, data signals would have been stabilized.

8. Claims 29-30 and 32-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koyama in view of Chimura, U.S. Pub. No 2005/0012704.

Koyama as discussed from the above, essentially disclose the claimed invention including first TFT in the pixel portion (figures 3-4); a gate line driving circuit inherently connected to gate signal lines G1. Koyama fails to explicitly disclose the source line driving circuit comprising a second TFT connected to the source line. Chimura discloses source line driving circuit 12002 comprising a second TFT connected to the source line 12007 (figure 12, paragraph [005]). It would have been obvious to one having ordinary skill in the art at the time of applicant's claimed invention was made to have provided the Koyama reference with the source line driving circuit having a second TFT connected to the source line; thus, data signals supplied to the pixels would have been turned on or off.

Claims 32-35, columns 27-28 of the Koyama reference discloses limitations, e.g., active matrix light emitting device, video camera, digital camera etc, as claimed.

9. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koyama and Chimura in view of Yamazaki.

Koyama and Chimura as discussed from the above, essentially disclose the claimed invention but fail to explicitly disclose the last stage includes at least a level shifter. Yamazaki discloses a light emitting device with a level shifter circuit in the last stage, i.e., the stage after amplification (figure 3). It would have been obvious to one

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having ordinary skill in the art at the time of applicant's claimed invention was made to have provided the Koyama and Chimura combination with the level shifter so as to regulate the output to the source signal lines; thus, data signals would have been stabilized.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Vu whose telephone number is (571) 272-1831. The examiner can normally be reached on M-F 8am-430pm.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free)

David Vu

Primary Examiner
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